

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

DSCC Annual Tire Conference

CATL UPDATE

March 24, 2011

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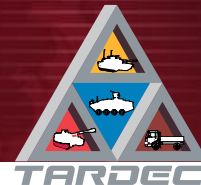
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AGENDA

- 2011 CATL 1922 TESTS
- 2012 CATL 1922 TESTS
- 2012 CATL 1923 TESTS
- CATL 1922 TEST TIRE SPECIFICATION
- TEST LABS
- CATL 1922 TESTING COMPLETED AND PENDING



2011 CATL 1922 Qualification Test Matrix



2011 CATL 1922 TESTS

Company	Group	Expiration Date	Test Reference
Michelin NA Retread Process (Retread)	2	7-Jan-11	ACTS-CATL-T1-1/98-045
Kelly Springfield	2	25-Feb-11	ACTS-CATL-T1-1/98-054
Goodyear Tire & Rubber Company	2	17-Jul-11	ACTS-CATL-T1-1/98-047
Bandamatic (Retread)	2	11-Aug-11	ACTS-CATL-T1-066
Continental Tire NA	2	31-Aug-11	ACTS-CATL-T1-1/98-063
Bandaq (Retread)	2	11-Nov-11	ACTS-CATL-T1-065
Michelin NA Precure (Retread)	3	7-Jan-11	ACTS-CATL-T1-1/98-045
Michelin NA Mold Cure Process (Retread)	3	7-Jan-11	ACTS-CATL-T1-1/98-045
Bandamatic (Retread)	3	16-Jan-11	ACTS-CATL-T1-1/98-038
Goodyear Precure Method (Retread)	3	25-Oct-11	ACTS-CATL-T1-1/98-048
Goodyear Ultima Precure Method (Retread)	3	25-Oct-11	ACTS-CATL-T1-1/98-044 and 48

2012 CATL 1922 TESTS

Qualification Test Matrix			
Company	Group	Expiration Date	Test Reference
Goodyear Tire & Rubber Company	1	30-Jun-12	ACTS-CATL-T1-1/98-062
Kelly Springfield	1	30-Jun-12	ACTS-CATL-T1-1/98-062
Goodyear Precure Retread Method	2	13-Aug-12	ACTS-CATL-T1-1/98-061
Oiver Precure Retread	2	25-Aug-12	ACTS-CATL-T1-1/98-059
BF Goodrich	3	12-Jun-12	ACTS-CATL-T1-1/98-056
Michelin NA	3	12-Jun-12	ACTS-CATL-T1-1/98-056
Yokohama Tire	3	13-Aug-12	ACTS-CATL-T1-1/98-062

2012 CATL 1923 TESTS

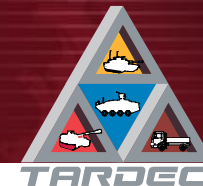
Qualification Test Matrix			
Company	Group	Expiration Date	Test Reference
Tyres International Inc.	2	8-Mar-12	CATL-ORTT-1923-2002-001
Specialty Tires of America Inc.	2	24-Aug-12	CATL-ORTT-1923-2000-001
Yokohama Tire Company	2	24-Oct-12	ACTS-CATL-TOR-02-01 1
Tyres International Inc.	3	8-Mar-12	CATL-ORTT-1923-2002-001
Specialty Tires of America Inc.	3	24-Aug-12	CATL-ORTT-1923-2000-001
Yokohama Tire Company	3	24-Oct-12	ACTS-CATL-TOR-02-01 1

CATL 1922 TIRE TEST SIZES AND TIRE PRESSURES

- Group 1 P205/70R15 (SL) Test Pressure: 35 PSI
- Group 1 P225/70R15 (SL) Test Pressure: 35 PSI
- Group 1 P195/65R15 (SL) Test Pressure: 35 PSI
- Group 2 LT235/85R16 L/R E Test Pressure: 65 PSI
- Group 2 7.50-16 LT L/R D Test Pressure: 65 PSI
- Group 3 11R22.5 L/R G Test Pressure: 105 PSI
- Group 3 10.00-20 L/R G Test Pressure: 100 PSI
- ORSA 16" tires LT (L/R D or L/R C, E upon request)
Test Pressure: 45 PSI



QUALIFIED CATL TEST FACILITIES



US Army TARDEC Qualified CATL Test Facilities

CATL 1922

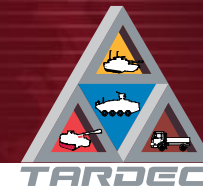
- Aberdeen Proving Grounds Greg Schultz gregory.schultz@atc.army.mil 410-278-5201
- Aberdeen Proving Grounds Fred Scriba frederick.scriba@atc.army.mil 410-278-5201
- Nevada Automotive Test Center Brett Horachek BHorachek@natc-ht.com 775-629-2000
- Nevada Automotive Test Center Shirley Parnell SParnell@natc-ht.com 775-629-2000
- Standards Testing Laboratories (20,000 mile Treadwear Test Only) Guy Edington gedington@stllabs.com 330-833-8548
- Yuma Proving Grounds Al Conde al.conde@us.army.mil 928-328-2362/2538
- Yuma Proving Grounds Brendan King Brendan.King@us.army.mil 928-328-2362/2538

CATL 1923

- Standards Testing Laboratories Guy Edington gedington@stllabs.com 330-833-8548
- Akron Rubber Development Laboratory Edwin Goyzueta EDWIN_GOYZUETA@ARDL.COM 330-794-6623, EXT 18
- Smithers Scientific Services, Inc. Mike Bair mbair@smithersmail.com 330/762-7441



TESTING AT NATC



Current Tests

Facility	CATL	Test	MFG	Group	Size & Load Range	Test Vehicle	Start Date	Finish Date	Comments
NATC	CATL 1922	20K Treadwear	Goodyear	2	LT235/85R16 LR-E	GMC 2500 (2WD)	11/19/2009	2/15/2010	Report sent
NATC	CATL 1922	20K Treadwear	Michelin	1	P225/70R15/SL	Dodge Durango	2/8/2010	4/7/2010	Report sent
NATC	CATL 1922	20K Treadwear	Goodyear	3	11R22.5 L/R G	1997 Peterbuilt 385 Daycab	3/15/2010	5/21/2010	Report sent
NATC	CATL 1922	20K Treadwear	Cooper	3	11R22.5 L/R G	1997 Peterbuilt 385 Daycab	3/15/2010	5/21/2010	Report sent
NATC	CATL 1922	20K Treadwear	Cooper	1	P205/70R15	2003 GMC Sonoma	7/26/2010	6-Sep	Report sent
NATC	CATL 1922	20K Treadwear	Oliver Retreads	3	11R22.5 L/R G	1994 Freightliner FLD12064ST	8/6/2010	1/17/2011	Report sent
NATC	CATL 1922	20K Treadwear	Bridgestone	3	11R22.5 L/R G	1994 Freightliner FLD12064ST	8/6/2010	1/17/2011	Report sent
NATC	CATL 1922	20K Treadwear	Bridgestone	1	P225/70R15	Dodge Durango	8/20/2010	10/21/2010	Report sent
NATC	CATL 1922	20K Treadwear	Bridgestone	2	LT235/85R16 (L/R E)	GMC 2500 (2WD)			Awaiting new control tire
NATC	CATL 1922	20K Treadwear	Bridgestone	2	LT235/85R16	GMC 2500 (2WD)	10/7/2010	24-Nov	Report inprogress
NATC	CATL 1922	2400 Treadwear	Bridgestone	ORSA	LT245/75R16	GMC 2500 (4WD)	10/6/2010	9-Dec	Report sent
NATC	CATL 1922	20K Treadwear	Specialty Tire of America	2	7.5-16LT	GMC 2500 (2WD)	6-Dec		Report inprogress.
NATC	CATL 1922	20K Treadwear	Continental	3	11R22.5 L/R G				Have funding and tires , Awaiting second test to run with it.
NATC	CATL 1922	20K Treadwear	Specialty Tire of America	3	10.00-20				Awaiting vehicle
NATC	CATL 1922	20K Treadwear	Bandag	3	11R22.5 L/R G				Awaiting vehicle
NATC	CATL 1922	20K Treadwear	Michelin (BFG)	1	P195/65R15	2003 GMC Sonoma	11/3/2010	12/22/2010	Report sent
NATC	CATL 1922	20K Treadwear	Michelin	2	LT 235/85R16	GMC 2500 (2WD)	21-Jan		Test is currently running
NATC	CATL 1922	20K Treadwear	Michelin	2	LT 235/85R16	GMC 2500 (2WD)			Fifth test in line for Group 2

Question?